

THE UNIVERSOFAMERICA

TO ALL TO VYHOM THESE: PRESENTS SHALL COME:

Hioneer Hi-Bred International, Inc.

MICCORS, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE LIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR PORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE PURPOSE, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE TO USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT ABY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

SOYBEAN

'91M70'

In Testimonn Thereof, I have hereunto set my hand and caused the seal of the Plant Inviety Frotestion Office to be affixed at the City of Washington, D.C. this fifteenth day of June, in the year two thousand and five.

Attest

Commissioner
Plant Variety Protection Office

X Goborno X Agriculturo U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

(monactions and milorination conet	Mon barden statement on re	everse)				
NAME OF OWNER Pioneer Hi-Bred Inter	national, Inc			2. TEMPORARY DESIGNAT EXPERIMENTAL NAME YB18V04		3. VARIETY NAME 91M70
4. ADDRESS (Street and No., or R.F.D. No., 7300 N. W. 62 rd Avenue P.O. Box 1004 Johnston, IA 50131	City, State, and ZIP Code, and Cou	intry)		5. TELEPHONE (include 515-254-2638	area code)	FOR OFFICIAL USE ONLY
				6. FAX (include area cod 515-253-2478	·	FILING DATE
IF THE OWNER NAMED IS NOT A "PERSORGANIZATION (corporation, partnership Corporate	CON", GIVE FORM OF , association, etc.)	8. IF INCORPO STATE OF IN	RATED, GIVE CORPORATION	9. DATE OF INCORPORATI May 6, 1926	ON	1/18/2005
10. NAME AND ADDRESS OF OWNER RI Daria Schmidt, Ph. D. 7300 N.W. 62 th Avenue P.O. Box 1004 Johnston ,IA 50131-1004	EPRESENTATIVE(S) TO SERVE IN Steve Callestine, Exq 7100 N.W 62™ Avenue P.O Box 1000 Johnston, IA 50131-1000	THIS APPLICATION	. (First person listed wil	I I receive all papers)		FILING AND EXAMINATION FEES: \$ 3,652.00 DATE 1/18/2005 CERTIFICATION FEE: \$ 432 DATE 5/1/2005
11. TELEPHONE (Include area code) 515-254-2638	12. FAX (Include area code) 515-253-2478		E-MAIL schmidt@pioneer.com		14. CROP Soybean	KIND (Common Name)
	ng History of the Variety nctness ion of Variety Ition of the Variety (Optional)	agated varieties,	20. DOES THE C VARIETY BE IF YES, WHITE 21. DOES THE C	S (If "yes", answer items 20 and 21 below) DWNER SPECIFY THAT SEED OLIMITED AS TO NUMBER OF (OF THIS CLASSES?	
	\$2,705), made payable to "Treasure y Protection Office)	r of the United	IF YES, SPEC			REGISTERED CERTIFIED
22. HAS THE VARIETY (INCLUDING ANY HAFROM THIS VARIETY BEEN SOLD, DISFOTHER COUNTRIES? YES IF YES, YOU MUST PROVIDE THE DATE FOR EACH COUNTRY AND THE CIRCU	OSED OF, TRANSFERRED, OR US X NO E OF FIRST SALE, DISPOSITION,	SED IN THE U.S. OI TRANSFER. OR USE	23. IS THE VARII PROPERTY I		THE VARIETY GHT OR PATEI	PROTECTED BY INTELLECTUAL V7)? NO AND ASSIGNED
24. The owners declare that a viable sample of for a tuber propagated variety a tissue cult. The undersigned owner(s) is(are) the ownered is entitled to protection under the provious Owner(s) is(are) informed that false representations.	er of this sexually reproduced or tub isions of Section 42 of the Plant Var	er propagated plant viety Protection Act.	rariety, and believe(s) the			
SIGNATURE OF OWNER J. Sch	mich		SIGNATURE OF	OWNER		
NAME (Please print or type) Daria H. Schmidt			NAME (Please pri	nt or type)		
CAPACITY OR TITLE Director, Technology Integration and Associativ	ve Genetics DATE	7/05	CAPACITY OR TI	TLE		DATE

GENERAL: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) completed application form signed by the owner; (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to reproduce the variety, or for tuber reproduced varieties verification that a viable (in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for \$2,705 (\$320) filing fee and \$2,385 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice.) Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfiled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 500, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the

> **Plant Variety Protection Office** Telephone: (301) 504-5518 FAX: (301) 504-5291

application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$320 for issuance

Homepage: http://www.ams.usda.gov/science/pvpo/pvp.htm

ITEM

18a. Give:

- (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
- the details of subsequent stages of selection and multiplication;
- (3) evidence of uniformity and stability; and

of the certificate. Certificates will be issued to owner, not licensee or agent.

- (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 18b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
 - (1) identify these varieties and state all differences objectively;
 - (2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and
 - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 18c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 18d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 18e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
- 19. If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed), the applicant MAY NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
- 21. See Section 83 of the Act for the Contents and Term of Plant Variety Protection.
- 22. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
- 23. See Section 5.5 of the Act for instructions on claiming the benefit of an earlier filing date.
- 21. CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)
- 22. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)
- 23. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)
- U.S. Patent 4,940,835 issued to Shah et al. as per the Roundup Ready Gene in this variety

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. There is no charge for filing a change of address. The fee for filing a change of ownership or assignment or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

To avoid conflict with other variety names in use, the applicant must check the variety names proposed by contacting: Seed Branch, AMS, USDA, Room 213, Building 306, Beltsville Agricultural Research Center--East, Beltsville, MD 20705. Telephone: (301) 504-8089.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this collection of information is (0581-0055). The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, political beliefs, sexual orientation, and marital or family status. (Not all prolibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact the USIA's TARGET Center at 202-720-2600 (voice and TDD). To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provider and employed

ST-470 (04-01) designed by the Plant Variety Protection Office with WordPerfect 6.0a. Replaces ST-470 (02-99) which is obsolete.

Exhibit A. Origin and Breeding History of the Variety

Soybean Variety 91M70

Variety 91M70 evolved from a cross made in the spring of 1998 in Puerto Rico with the following parentage:

ST1970/K20014 K20014 = ST1970/92B05*

*92B05 is a commercial line with the Roundup Ready (40-3-2) gene

Variety 91M70 is an F4-derived line which was advanced to the F4 generation by modified single-seed descent. The F4 progeny row of 91M70 was grown in a plant row in the summer of 2000 in Minnesota. Subsequently, 91M70 has undergone four years of extensive testing and purification and has been observed by the breeder to be uniform and stable for all plant traits from generation to generation, with no evidence of variants. On the basis of yield, Phytophthora resistance, resistance to Roundup labeled herbicides, variety 91M70 was assigned a commercial number.

The purification block was grown during the summer of 2003 in Minnesota and 16 sublines were harvested. An approximately half (1/2) acre increase was grown in Chile in the winter of 2002/03. Thirty-four (34) acres of parent seedstock (foundation seed equivalent) and production seed were grown in the summer of 2004.

Exhibit B. Statement of Distinctness

Soybean Variety 91M70

Variety 91M70 is most similar to variety 92B05. Both varieties have tawny pubescence, brown hila, resistance to *Phytophthora megasperma* as governed by the Rps1k gene, and resistance to Roundup branded herbicides. However, 91M70 has white flowers whereas 92B05 has purple flowers.

REPRODUCE LOCALLY. Include form number and date on all reproductions.

Form Approved - OMB No. 0581-0055

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this collection of information is (0581-0055). The time required to complete this information collection is estimated to average 30 minutes per response, including the time for reviewing instructions, searching existing data ources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, political beliefs, sexual orientation, and marital or family status. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact the USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326©W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MD 20705

EXHIBIT C (Soybean)

		ECTIVE DESCR SOYBEAN (<i>Glyc</i> i		
NAME OF APPLICANT(S) Pioneer Hi-Bred, International Jine.	1./ 3			FOR OFFICIAL USE ONLY
ADDRESS (Street and No. or R.F.D. No., City, State 7300 N.W. (877/31/2005)	7 -7 -7			r2vv 5 0 0 0 7 4
-720062nd Avenue P.O Box 1004 Johnston, IA 50131-1004				VARIETY NAME 91M70
			٠.	TEMPORARY OR EXPERIMENTAL DESIGNATION
	_			< YB18Y04>
PLEASE READ ALL INSTRUCTION	S CAREFULLY: Place	the appropriate nun	aber that describes t	he varietal character of this variety in the boxes below.
Place a zero in the first box (e.g. quantitative	0 0 0	or 0 9		ither 99 or less or 9 or less respectively. Data for
· -	minimum of 100 plants	Compositive data s	should be determine	d from varieties entered in the same trial. Royal
Horticulutral Society or any recognized			•	
Please answer all questions for your va				te system useu:
A. MORPHOLOGY				
Seed Shape:				
2	W ratios < 1.2)		erical - Flattene atio > 1.2; L/T ra	
3 = Elongated (L/T ratio . 1.2; T/	W ratio < 1.2)		ngate - Flattened tio > 1.2;T/W ra	· · · · · · · · · · · · · · · · · · ·
Seed Coat Color:		(·	
1 = Yellow	2 = Green	3 = Brown	4 = Black	5 = Other
Seed Coat Luster:				(Please Specify
•				
1 = Duli	2 = Shiny			
Seed Size:	•			
16.8 grams/100 se	eds			
Hilum Color:				2.30
3 1 = Buff	2 = Yellow	3 = Brown	4 = Gray	5 = Imperfect Black
6 = Black	7 = Other (Place)	ease Specify)	-	•

A. MORPHOLOGY (Continued)

Cotyledon Color:

1

1 = Yellow

2 = Green

Seed Protein Peroxidase Activity:

2

1 = Low

2 = High

Hypocotyl Color:

1

1 = Green ('Evans' or 'Davis') 2 = Green with Bronze Bands below Cotyledons

('Woodworth' or 'Tracy')

ns

3 = Light Purple below Cotyledons

('Beeson' or 'Pickett 71')

4 = Dark Purple extending to unifoliolate leaves

unifoliolate leaves ('Hodgson', 'Coker', or

Leaflet Shape:

3

1 = Lanceolate

2 = Oval

3 = Ovate

4 = Other (Please Specify)

Flower Color:

1

1 = White

2 = Purple

3 = White with a Purple Throat

Pod Color:

1

1 = Tan

2 = Brown

3 =Black

Pubescence Color:

3 2/18/05

2/28/05 1 = Gray

2 = Brown (Tawny)

3 =Light Tawny

Plant Habit:

3

1 = Determinate

2 = Semi - Determinate

3 =Indeterminate

4 =Intermdeiate

Maturity Group:

04

1 = 000

2 = 00

3 = 0

2 – 37

4 = I

5 = II

6 = III

7 = IV

8 = V

9 = VI

10 = VII

11 = VIII

12 = IX

13 = X

14 = XI

 $15 = X\Pi$

Maturity Subgroup:

7

Please enter a value from 0 - 9

B. DISEASE REACTION

0 = Not Tested

1 = Susceptible

2 = Resistant

3 = Tolerant

Bacterial

0

Bacterial Pustule (Xanthomonas campestri pv. glycines (Nakano) Dye)

1

Bacterial Blight Pseudomonas syringa pv. glycinea (Coerper) Young, Dye, and Wilkie)

0

Wildfire Blight Pseudomonas syringa pv. tabaci (Wolf Foster) Young, Dye, Wilkie)

B. D	ISEASE REACT	ION (Continue	ed) 0 = Not Tested	1 = Susceptil	ble 2 = Resistant 5 9=Qolerant 4
Fu	ngal				•
	1 Brown Spot	(Septoria glycines _H	emmi)		
	 Frogeye Leaf	Spot (Cercospora	sojina Hara)		
	0 race 1	0 ra	ce 2	0 rad	ce 3 0 race 4
	0 race 5	0 ra	ce 6	0 Ot	he (Please Specify)
	Target Spot (Corynespora cassiio	ola (Berk. Curt.) Wei) .	
	Downey Milde	w (<i>Peronospora tr</i> ij	foliorum var. manchuri	ca (Naum.) Syd	l. ex Gäum)
	Powdery Milde	ew (Microsphaera d	liffusa Cke. and Pk.)		
(Brown Stem R	ot <i>(Phialophora g</i> i	regata (Allington Char	nberlain) W. G	lams.)
(Stem Canker	(Diaporthe phaseol	orum (Cke. and Ell.) Sa	acc. var. <i>cauliv</i>	ora Athow and Caldwell)
	Pod and Stem l	Blight (Diaporthe	phaseolorum (Cke. and	l Ell.) Sacc. vai	r. sojae (Lehman) Wehm.
(Purple Seed Sta	ain (Cercospora	kikuchii (T. Matsu. an	d Tomoyasu) (Gardener)
1	Rhizoctonia Ro	ot Rot (Rhizoctor	nia solani Kühn)		
Phy	tophthora Root Rot	(Phytophthora meg	asperma Drechs. f. sp	. glycinea (Ku	an Erwin))
C	race 1	0 race 8	0 race 15	0	race 22
0	race 2	0 race 9	0 race 16	0	race 23
0	race 3	0 race 10	0 race 17	0	race 24
2	race 4	0 race 11	0 race 18	0	race 25
0	race 5	0 race 12	0 race 19	0	race 26
0	race 6	0 race 13	0 race20	0	Other (Please Specify)
2	race 7	0 race 14	0 race 21		0
1	Bud Blight (Tob	oacco Ringspot Vir	us)		
1	Yellow Mosaic (bean Yellow Mosa	ic Virus)		

B. DIS	SEASE REACTIONS	(Continued)	= Not Teste	d 1 = Susceptible	2 = Resistant	3 = Tolerant	
Fung 1	al Cowpea Mosaic (Cow	pea Chlorotic Viru	ıs)	·			
1	Pod Mottle (Bean Pod	Mottle Virus)					
1	Seed Mottle (Soybean	Mosaic Virus)					
Nema	tode						
Soybe	ean Cyst Nematode (Hete	rodera glycines Icl	ninohe)				
0	race 1 0	race 4	0 race	9			
0	race 2	race 5	0 race	14			
0	race 3	race 6	Othe	r (Please Specify)			
0	Lance Nematode (Ho	ploaimus columbu	s Sher)				
0	Southern Root Knot N	ematode (<i>Meloido</i> į	gyne incognit	a (Kofoid and White	e) Chitwo		•
0	Northern Root Knot N	ematode (<i>Meloido</i>)	gyne hapla C	hitwood)			
0	Peanut Root Knot Nen	natode (<i>Meloidogyi</i>	ne arenaria (Neal) Chitwood)			
0	Reniform Nematode (A	Rotylenchus renifo	rmus Linwoo	d and Olivera)			
0	Javanese Nematode (A	Aeloidogyne javani	ca (Treub) (Chitwood)			
0	Other Nematode (Ple	ase Specify) 0					
. PH	YSIOLOGICAL RES	PONSES 0	= Not Tested	1 = Susceptible	2 = Resistant	3 = Tolerant	
0	Iron Chlorosis on Calca	areous Soil	[]				
0	Phosphorus		0	Other (<i>Please Speci</i>	(fy) 0		
0	Boron						
0	Aluminum						
0	Salt						
Ω	Drought		,	•	4		

200500074

D. INSECT REACTIONS	0 = Not Tested	1 = Susceptible	2 = Resistant	3 = Tolerant
Fungal	\			
Mexican Bean Beetle (Epilachi	na varivestis Mulsant)			
O Potato Leaf Hopper (Empoasco	ı fabae (Harris))			
O Other (Please Specify)				
E. HERBICIDE REACTIONS	0 = Not Tested	1 = Susceptible	2 = Resistant	
0 Metribuzin				
O Bentazone				
1 Sulfonylurea				
2 Glyphosate				
0 Glufosinate			•	
0 Pendimethalin				
O Other (Please Specify) 0				. •
F. TRANSGENIC COMPOSITION				
Has the development of the subject variety i the removal of genetic material from the ap	included the insertion of		(other than a soybean, or,
If yes, please complete the following infomat	- •	Yes tional pages if nece	□ No	
1. Please state the vector's name:		- 0		
2. Please state the vector components:				4.
3. Please describe the genetic material succe	essfully transferred into	the subject variety	:	
4. Please describe the insertion protocol:				
* A literature citation(s) explaining the formation of this formation of this formation of the vector components and insert elements a Development, Identification, and Characterian	orm. This section is fully are summarized in Figure	y addressed in the t e 1 and Table 1 on	following publicat page 1453. Padge	tion. Specific details of ette. S.R. et al.
G. BIOCHEMICAL MARKERS				
Please describe any biochemical information Simple Sequences Repeats, Restriction Fragi necessary.	here, which you believe ment Length Polymorph	will be helpful in f isms, Isozymic Cha	urther describing racterization).	; the subject variety (e.g. Use additional pages if

H. COMMENTS

Exhibit D. Additional Description of the Variety

Soybean Variety 91M70

In Exhibit C we have identified variety 91M70 as susceptible to bacterial blight, brown spot, pod and stem blight, rhizoctonia root rot, bud blight, yellow mosaic, cowpea mosaic, pod mottle and seed mottle.

This does not mean that variety 91M70 is any worse for these problems than other varieties of similar maturity. Rather, we do not consider 91M70 to be immune to these problems. Therefore, we have chosen to be conservative and have identified the line as "susceptible".

Variety 91M70 is a late Group 1 variety. If Group 1 varieties are divided into tenths, the relative maturity of 91M70 is 1.7.

U.S. DEPARTMENT OF AGRICULTURE	I ha talloughe atataments are me	accordance with the Privacy Act of
AGRICULTURAL MARKETING SERVICE	1974 (5 U.S.C. 552a) and the Paper	
EXHIBIT E STATEMENT OF THE BASIS OF OWNERSHIP	Application is required in order to det certificate is to be issued (7 U.S.C. 2 confidential until the certificate is issued.	421). The information is held
NAME OF APPLICANT(S)	2. TEMPORARY DESIGNATION	2. VARIETY NAME
Pioneer Hi-Bred International, Inc	OR EXPERIMENTAL NUMBER AB 18 V DA	91M70
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country)	5. TELEPHONE (Include area code)	6. FAX (Include area code)
7300 N.W. 62 nd Avenue P.O. Box 1004 Johnston, IA 50131-1004	515-254-2638	515-253-2478
	7. PVPO NUMBER	
	2005	00074
Does the applicant own all rights to the variety? Mark an "X" in the If no, please explain.	ne appropriate block.	X YES N
ii ito, picase explain.		
9. Is the applicant (individual or company) a U.S. National or a U.S. If no, give name of country	based company?	X YES N
10. Is the applicant the original owner? X YES N	If no, please answer one of the fol	lowing:
a. If the original rights to variety were owned by individual(s), is	(are) the original owner(s) a U.S. Nation	al(s)?
YES NO If no, give name of count		
b. If the original rights to variety were owned by a company(ies)		and company?
		sed company?
YES NO If no, give name of count	гу	
YES NO If no, give name of count 11. Additional explanation on ownership (If needed, use the reverse		
11. Additional explanation on ownership (If needed, use the reverse		
11. Additional explanation on ownership (If needed, use the reverse	for extra space):	
11. Additional explanation on ownership (If needed, use the reverse	for extra space): sees) who meet the following criteria:	of a UPOV member country, or
11. Additional explanation on ownership (If needed, use the reverse Please Note: Plant variety protection can only be afforded to the owners (not licen 1. If the rights to the variety are owned by the original breeder, that period of a country which affords similar protection to nationals of	for extra space): sees) who meet the following criteria: person must be a U.S. national, national of the U.S. for the same genus and spec	ies.
11. Additional explanation on ownership (If needed, use the reverse Please Note: Plant variety protection can only be afforded to the owners (not licen 1. If the rights to the variety are owned by the original breeder, that p	for extra space): sees) who meet the following criteria: person must be a U.S. national, national of the U.S. for the same genus and spec	ies. y must be U.S. based, owned by
Please Note: Plant variety protection can only be afforded to the owners (not licen national of a country which affords similar protection to nationals of a UPOV member country, or owned by nationals of a	sees) who meet the following criteria: berson must be a U.S. national, national of the U.S. for the same genus and specially the original breeder(s), the compan country which affords similar protection	ies. y must be U.S. based, owned by to nationals of the U.S. for the same
Please Note: Plant variety protection can only be afforded to the owners (not licen national of a country which affords similar protection to nationals of a UPOV member country, or owned by nationals of a genus and species.	sees) who meet the following criteria: berson must be a U.S. national, national of the U.S. for the same genus and specified the original breeder(s), the compan country which affords similar protection original owner and the applicant must re	ies. y must be U.S. based, owned by to nationals of the U.S. for the same neet one of the above criteria.
Please Note: Plant variety protection can only be afforded to the owners (not licent national of a country which affords similar protection to nationals of a UPOV member country, or owned by nationals of a genus and species. If the applicant is an owner who is not the original owner, both the original breeder, but the nationals of a UPOV member country, or owned by nationals of a genus and species.	sees) who meet the following criteria: berson must be a U.S. national, national of the U.S. for the same genus and spectived the original breeder(s), the companicountry which affords similar protection original owner and the applicant must not irected the final breeding. See Section and a collection of information unless it displays a valid Of collection is estimated to average 6 minutes per respective.	ies. y must be U.S. based, owned by to nationals of the U.S. for the same neet one of the above criteria. 41(a)(2) ot the Plant Variety Protection WB control number. The valid OMB control numbers, including the time for reviewing the

To file a complaint, write the Secretary of Agriculture, U.S. Department of Agriculture, Washington, D.C. 20250, or call 1-800-245-6340 (voice) or (202) 720-1127 (TDD). USDA is an equal opportunity employer.

ST-470-E (04-99) (Destroy previous editions).